# Index of Authors


Abdullah, N. *see* Jin, L.Z.

Abo-Dahab, N.F., Paterson, R.R.M. & Razak, A.A. Effect of fungistatic agent 2-deoxy-D-glucose on mycotoxins from *Penicillium expansum* 171

Ali, M.A. *see* Jin, L.Z.

Almeida, M.J. & Pais, C.S. Characterization of the yeast population from traditional corn and rye bread doughs 154

Alvarez, M.J. *see* Diez, A.

Ashakumary, L. *see* Selvakumar, P.

Atyeo, R.F. *see* Trott, D.J.

Auffray, Y. *see* Thammavongs, B.

Austin, B. *see* Gibb, A.

Avery, S.M. *see* Buncic, S.

Aw, D.W.J. *see* Bell, K.S.

Banerjee, P.C. *see* Mahapatra, N.R.

Barbosa, A.M., Dekker, R.F.H. & St Hardy, G.E. Veratryl alcohol as an inducer of laccase by an ascomycete, *Botryosphaeria* sp., when screened on the polymeric dye Poly R-478 93

Barnes, B.I., Cassar, C.A., Halablab, M.A., Parkinson, N.H. & Miles, R.J. An *in situ* method for determining bacterial survival on food preparation surfaces using a redox dye 325

Barrett, S.J. *see* Sneath, P.H.A.

Bautista, J.M. *see* Diez, A.

Bedwell, M.S. & Goulder, R. Bacterial outputs from ponds and tanks used in intensive fish farming 412

Bell, K.S., Philp, J.C., Christofi, N. & Aw, D.W.J. Identification of *Rhodococcus equi* using the polymerase chain reaction 72

Benoit, L. *see* Gehin, A.

Berge, C.A. *see* Wille, K.K.

Bernardo, A. *see* Lopez, M.

Betts, W.B. *see* Harrison, A.B.

Billett, E. *see* Mansfield, L.P.

Blackall, L.L. *see* Stratton, H.M. *also* Uzal, F.A.

Bolton, F.J., Crozier, L. & Williamson, J.K. Isolation of *Escherichia coli* O157 from raw meat products 317

Borrego, J.J. *see* Munoz, M.A. *also* Sanchez, J.M.

Boutibonnes, P. *see* Thammavongs, B.

Bresciani, J. *see* Damgaard, P.H.

Brevis, P. *see* Padilla, C.

Briese, F.W. *see* Wille, K.K.

Brownlee, A.G. *see* Ruma, P.

Buncic, S. & Avery, S.M. Relationship between variations in pathogenicity and lag phase at 37°C of *Listeria monocytogenes* previously stored at 4°C 18

Cailliez, C. *see* Gehin, A.

Casal, V. *see* Parra, L.

Cassar, C.A. *see* Barnes, B.I.

Chart, H., Cheasty, T. & Rowe, B. Serological identification of infection by verocytotoxin-producing *Escherichia coli* 322

Chatwin, C.R. *see* Ward, G.D.

Cheasty, T. *see* Chart, H.

Chen, S.C.A. *see* Ruma, P.

Christofi, N. *see* Bell, K.S.

Chu, W.-S. *see* Lee, Y.-H.

Codina, J.C. *see* Munoz, M.A.

Corfe, B.M. *see* McCann, K.P.

Corroler, D. *see* Thammavongs, B.

Crozier, L. *see* Bolton, F.J.

Crumplen, R.M., Slaughter, J.C. & Stewart, G.G. Characteristics of maltose transporter activity in an ale and lager strain of the yeast *Saccharomyces cerevisiae* 448

Cutter, C.N. & Siragusa, G.R. Reduction of *Brochothrix thermosphacta* on beef surfaces following immobilization of nisin in calcium alginate gels 9

Cutter, C.N. *see* Dorsa, W.J.

Damgaard, P.H., Larsen, H.D., Hansen, B.M., Bresciani, J. & Jorgensen, K. Enterotoxin-producing strains of *Bacillus thuringiensis* isolated from food 146

de Boer, E., Tilburg, J.J.H.C., Woodward, D.L., Lior, H. & Johnson, W.M. A selective medium for the isolation of *Arcobacter* from meats 64

de Vicente, A. *see* Munoz, M.A.

Deans, S.G. *see* Lis-Balchin, M.

Deguchi, Y. *see* Sugita, H.

Dekker, R.F.H. *see* Barbosa, A.M.

Delfour, A. *see* Revol-Junelles, A.-M.

Delgenes, J.P. *see* Rustrian, E.

Deng, S.-J. *see* Forster, R.J.

Diez, A., Prieto, M.I., Alvarez, M.J., Bautista, J.M., Puyet, A. & Garrido-Pertierra, A. Purification and properties of a high-affinity L-2-haloacid dehalogenase from *Azotobacter* sp. strain RC26 279

Ding, Z. *see* Jiang, C.

Dlauchy, D. *see* Tornai-Lehoczki, J.

Dorsa, W.J., Cutter, C.N. & Siragusa, G.R. Effectiveness of a steam-vacuum sanitizer for reducing *Escherichia coli* O157:H7 inoculated to beef carcass surface tissue 61

Emtiazi, G. *see* Knapp, J.S.

Ewart, D.M. *see* Grace, J.K.

Fabregas, J., Morales, E., Polanco, N., Patino, M. & Otero, A. Soluble fractions of *Solanum tuberosum* enhance cell and pigment production of semi-continuous culture of the microalga *Phaeodactylum tricornutum* 223

Fedorak, P.M. *see* Goncalves, J.A.

Filtenborg, O. *see* Lund, F.

Fleury, Y. *see* Revol-Junelles, A.-M.

Flores, M.E. *see* Solis, S.
Foglia, A.N. *see* Wille, K.K.
Fonty, G. *see* Newbold, C.J.
Forster, R.J., Teather, R.M., Gong, J. & Deng, S.-J. 16S rDNA analysis of *Butyrivibrio fibrisolvens*: phylogenetic position and relation to butyrate-producing anaerobic bacteria from the rumen of white-tailed deer 218
Forsythe, S.J. *see* Mansfield, L.P.
Frisvad, J.C. *see* Lund, F.
Gambhir, A. *see* Manna, B.
Garcia, M.L. *see* Lopez-Diaz, T.M.
Garrido-Pertierra, A. *see* Diez, A.
Gehin, A., Cailliez, C., Petitdemange, E. & Benoit, L. Studies of *Clostridium cellulolyticum* ATCC 35319 under dialysis and co-culture conditions 208
Ghosh, P. *see* Manna, B.
Gibb, A., McIntosh, D. & Austin, B. Characterization of a stable L-form of the fish pathogen *Aeromonas salmonicida* 445
Gomez, R. *see* Parra, L.
Goncalves, J.A. & Fedorak, P.M. Aerobic degradation of 2-sulphobenzoic acid by *Pseudomonas* strain SB(W) 299
Gong, J. *see* Forster, R.J.
Gonzalez, I. *see* Lopez, M.
Gonzalez, J. *see* Lopez, M.
Goodson, M. *see* Rowbury, R.J.
Goulder, R. *see* Bedwell, M.S.
Grace, J.K. & Ewart, D.M. Recombinant cells of *Pseudomonas fluorescens*: a highly palatable encapsulation for delivery of genetically engineered toxins to subterranean termites (Isoptera: Rhinotermitidae) 183
Gutierrez, N.A. & Maddox, I.S. Galactose transport in *Clostridium acetobutylicum* P262 97
Halablab, M.A. *see* Barnes, B.I.
Hamilton-Miller, J.M.T. & Shah, S. Anomalous but helpful findings from the BBL Crystal ID kit with *Haemophilus* spp. 47
Hampson, D.J. *see* Trott, D.J.
Hanlon, G.W. *see* Thomason, M.J.
Hansen, B.M. *see* Damgaard, P.H.
Harmon, K.M. & Wesley, I.V. Identification of *Arcobacter* isolates by PCR 241
Harrison, A.B. & Betts, W.B. Assay of bacterial and fungal activity in diesel contaminated soil using a $^{14}C$-glucose utilization 43
Helen, A. *see* Selvakumar, P.
Herman, L. *see* Jersek, B.
Heron, S.T. *see* Knapp, J.S.
Ho, Y.W. *see* Jin, L.Z.
Hodrova, B. *see* Kopecny, J.
Holmalahti, J., Junttila, S. & Von Wright, A. Rapid detection and isolation of DNA-binding compounds from *Streptomyces xanthochromogenes* 231
Hubert, E. *see* Padilla, C.
Hudson, J.A., MacKenzie, C.A.M. & Joblin, K.N. Hydration of oleic acid by a *Selenomonas* strain from the ovine rumen 133
Huitron, C. *see* Solis, S.
Humphrey, T.J. *see* Lazim, Z.
Humphreys, A.M. *see* Jackson, D.J.
Hutt, A.J. *see* Thomason, M.J.
Igimi, S., Ryu, C.H., Park, S.H., Sasaki, Y., Sasaki, T. & Kumagai, S. Transfer of conjugative plasmid pAMβ1 from *Lactococcus lactis* to mouse intestinal bacteria 31
Inoue, N. *see* Yamazaki, K.
Iriarte, P. & Owen, R.J. PCR-RFLP analysis of the large subunit (23S) ribosomal RNA genes of *Campylobacter jejuni* 163
Jackson, D.J., Saunders, V.A. & Humphreys, A.M. Potential chitinase activating factor from yeast cells of *Candida albicans* 159
Jalaludin, S. *see* Jin, L.Z.
Jersek, B., Tcherneva, E., Rijpens, N. & Herman, L. Repetitive element sequence-based PCR for species and strain discrimination in the genus *Listeria* 55
Jiang, C., Yu, H., Ding, Z. & Ma, Y. Reduction of *Saccharomyces* cell adhesion by liquid mechanical vibration 27
Jin, B.R. *see* Roh, J.Y.
Jin, L.Z., Ho, Y.W., Abdullah, N., Ali, M.A. & Jalaludin, S. Antagonistic effects of intestinal *Lactobacillus* isolates on pathogens of chicken 67
Joblin, K.N. *see* Hudson, J.A.
Johnson, C.H. *see* Rice, E.W.
Johnson, W.M. *see* de Boer, E.
Jorgensen, K. *see* Damgaard, P.H. *also* Rasmussen, H.N.
Joseph, R. *see* Shantha, T. *also* Sreeramulu, G.
Jouany, J.P. *see* Newbold, C.J. *also* Ushida, K.
Junttila, S. *see* Holmalahti, J.
Kakizaki, E., Yoshida, T., Kawakami, H., Oseto, M., Sakai, T. & Sakai, M. Detection of bacterial antigens using immuno-PCR 101
Kanatani, K. *see* Tahara, T.
Kang, S.K. *see* Roh, J.Y.
Katsaboxakis, K. & Mallidis, K. The microflora of soak water during natural fermentation of coarsely ground chickpea (*Cicer arietinum*) seeds 261
Kawakami, H. *see* Kakizaki, E.
Kawasaki, J. *see* Sugita, H.
Kelly, A.F. & Patchett, R.A. Lactate and acetate production in *Listeria innocua* 125

Kelly, W.R. *see* Uzal, F.A.
Kim, H.S. *see* Roh, J.Y.
Kinderlerer, J.L. The effect of age on the thermal resistance of arthroconidia from *Chrysosporium inops* 359
Kira, I. *see* Onishi, N.
Kisidayova, S. The cryopreservation of some large ciliate entodiniomorphid protozoa taken from the rumen 389
Knapp, J.S., Emtiazi, G., Yusoff, S. & Heron, S.T. The utilization of morpholine as a sole nitrogen source by Gram-negative bacteria 334
Koga, T., Nakajyo, Y. & Komoto, A. Detection of Hsp60 (GroEL)-like proteins in *Vibrio parahaemolyticus* and *Vibrio* species by Western immunoblotting analysis 295
Komatsubara, S. *see* Sakurai, N.
Komoto, A. *see* Koga, T.
Kopecny, J., Hodrova, B. & Stewart, C.S. The effect of rumen chitinolytic bacteria on cellulolytic anaerobic fungi 199
Kopecny, J., Hodrova, B. & Stewart, C.S. The isolation and characterization of a rumen chitinolytic bacterium 195
Krier, F. *see* Revol-Junelles, A.-M.
Kumagai, S. *see* Igimi, S.
Kumazawa, J. *see* Sugita, H.
Kurane, R. *see* Suemori, A.
Kuroe, K. *see* Suzuki, S.
Kusuda, R. *see* Suzuki, S.
Lang, E. Diversity of bacterial capabilities in utilizing alkylated benzenes and other aromatic compounds 257
Larsen, H.D. *see* Damgaard, P.H.
Lazim, Z. *see* Rowbury, R.J.
Lazim, Z., Humphrey, T.J. & Rowbury, R.J. Induction of the PhoE porin by NaCl as the basis for salt-induced acid sensitivity in *Escherichia coli* 269
Lee, J.I. *see* Trott, D.J.
Lee, K.K. & Yii, K.-C. A comparison of three methods for assaying hydrophobicity of pathogenic vibrios 343
Lee, Y.-H. & Chu, W.-S. D-Amino acid oxidase activity from *Rhodosporidium toruloides* 283
Lefebvre, G. *see* Revol-Junelles, A.-M.
Lever, M.S. & Williams, A. Cross-infection of chicks by airborne transmission of *Salmonella enteritidis* PT4 347
Lever, M.S. *see* McDermid, A.S.
Li, M. *see* Umemoto, T.
Lior, H. *see* de Boer, E.
Lis-Balchin, M. & Deans, S.G. Antimicrobial effects of hydrophilic extracts of *Pelargonium* species (Geraniaceae) 205
Litopoulou-Tzanetaki, E. *see* Vafopoulou-Mastrojiannaki, A.
Lloyd, A.W. *see* Thomason, M.J.
Lobos, O. *see* Padilla, C.
Lopez, M., Mazas, M., Gonzalez, I., Gonzalez, J. & Bernardo, A. Thermal resistance of *Bacillus stearothermophilus* spores in different heating systems containing some approved food additives 187
Lopez-Diaz, T.M., Santos, J., Otero, A., Garcia, M.L. & Moreno, B. Some technological properties of *Penicillium roqueforti* strains isolated from a home-made blue cheese 5
Loureiro, V. *see* Noronha-da-Costa, P.
Lund, F., Filtenborg, O., Westall, S. & Frisvad, J.C. Associated mycoflora of rye bread 213
Ma, Y. & Marquis, R.E. Irreversible paraben inhibition of glycolysis by *Streptococcus mutans* GS-5 329
Ma, Y. *see* Jiang, C.
MacKenzie, C.A.M. *see* Hudson, J.A.
Madden, R.H., Moran, L. & Scates, P. Sub-typing of animal and human *Campylobacter* spp. using RAPD 167
Maddox, I.S. *see* Gutierrez, N.A.
Mahapatra, N.R. & Banerjee, P.C. Extreme tolerance to cadmium and high resistance to copper, nickel and zinc in different *Acidiphilium* strains 393
Maillard, J.-Y. Bacteriophages: a model system for human viruses 273
Mallidis, K. *see* Katsaboxakis, K.
Manna, B., Gambhir, A. & Ghosh, P. Production and rheological characteristics of the microbial polysaccharide gellan 141
Mansfield, L.P., Billett, E., Olsen, E. & Forsythe, S.J. Variation in *Salmonella* core lipopolysaccharide as detected by the monoclonal antibody M105 104
Marquis, R.E. *see* Ma, Y.
Mathan, N., Parani, M., Parida, A. & Nair, S. Random amplified polymorphic DNA analysis of root-nodulating bacterial strains from *Arachis hypogaea* with physiological characteristics of both fast and slow growers 89
Mathis, R. *see* Revol-Junelles, A.-M.
Mazas, M. *see* Lopez, M.
McCann, K.P., Robinson, C., Sammons, R.L., Smith, D.A. & Corfe, B.M. Alanine germination receptors of *Bacillus subtilis* 290
McDermid, A.S. & Lever, M.S. Survival of *Salmonella enteritidis* PT4 and *Salm. typhimurium* Swindon in aerosols 107
McIntosh, D. *see* Gibb, A.
Mear, J.P. *see* Pettibone, G.W.
Miles, R.J. *see* Barnes, B.I.
Moletta, R. *see* Rustrian, E.
Morales, E. *see* Fabregas, J.
Moran, L. *see* Madden, R.H.

Moreno, B. *see* Lopez-Diaz, T.M.
Morinigo, M.A. *see* Munoz, M.A. *also* Sanchez, J.M.
Mortimer, R. *see* Polsinelli, M.
Morvan, B. *see* Newbold, C.J.
Munoz, M.A., Codina, J.C., de Vicente, A., Sanchez, J.M., Borrego, J.J. & Morinigo, M.A. Effects of nickel and lead and a support material on the methanogenesis from sewage sludge 339
Nair, S. *see* Mathan, N.
Naito, Y. *see* Umemoto, T.
Nakajima, K. *see* Suemori, A.
Nakajyo, Y. *see* Koga, T.
Nakamura, Y. *see* Suemori, A.
Namikawa, I. *see* Umemoto, T.
Nand, K. *see* Sreeramulu, G.
Newbold, C.J., Ushida, K., Morvan, B., Fonty, G. & Jouany, J.P. The role of ciliate protozoa in the lysis of methanogenic archaea in rumen fluid 421
Noronha-da-Costa, P., Rodrigues, C., Spencer-Martins, I. & Loureiro, V. Fatty acid patterns of film-forming yeasts and new evidence for the heterogeneity of *Pichia membranaefaciens* 79
Nychas, G.-J.E. & Tassou, C.C. Growth/survival of *Salmonella enteritidis* on fresh poultry and fish stored under vacuum or modified atmosphere 115
O'Boyle, D. *see* Uzal, F.A.
Oda, Y. & Tonomura, K. Detection of maltose fermentation genes in the baking yeast strains of *Saccharomyces cerevisiae* 266
Ohba, M. Identification of flagellar (H) antigenic subfactors in *Bacillus thuringiensis* H serotypes 10, 18 and 24 isolated in Japan 287
Olsen, E. *see* Mansfield, L.P.
Olsen, J.E. *see* Rasmussen, H.N.
Onishi, N., Kira, I. & Yokozeki, K. Galacto-oligosaccharide production from lactose by *Sirobasidium magnum* CBS6803 253
Oseto, M. *see* Kakizaki, E.
Oshimura, M. *see* Tahara, T.
Otero, A. *see* Fabregas, J. *also* Lopez-Diaz, T.M.
Owen, R.J. *see* Iriarte, P.
Padilla, C., Brevis, P., Lobos, O. & Hubert, E. Bacteriocin activity of *Pseudomonas* sp. on enteropathogenic bacteria in an artificial aquatic system 371
Pais, C.S. *see* Almeida, M.J.
Pandey, A. *see* Selvakumar, P.
Panoff, J.-M. *see* Thammavongs, B.
Parani, M. *see* Mathan, N.
Parida, A. *see* Mathan, N.
Park, H.W. *see* Roh, J.Y.
Park, S.H. *see* Igimi, S.
Parkinson, N.H. *see* Barnes, B.I.
Parra, L., Requena, T., Casal, V. & Gomez, R. Proteolytic activity of lactobacilli in a model goats' milk curd system 375
Patchett, R.A. *see* Kelly, A.F.
Paterson, R.R.M. *see* Abo-Dahab, N.F.
Patino, M. *see* Fabregas, J.
Peck, M.W. *see* Stringer, S.C.
Permaul, K., Pillay, D. & Pillay, B. Random-amplified polymorphic DNA (RAPD) analysis shows intraspecies differences among *Xanthomonas albilineans* strains 307
Petitdemange, E. *see* Gehin, A.
Pettibone, G.W., Mear, J.P. & Sampsell, B.M. Incidence of antibiotic and metal resistance and plasmid carriage in *Aeromonas* isolated from brown bullhead (*Ictalurus nebulosus*) 234
Philp, J.C. *see* Bell, K.S.
Pillay, B. *see* Permaul, K.
Pillay, D. *see* Permaul, K.
Plumb, J.J. *see* Uzal, F.A.
Polanco, N. *see* Fabregas, J.
Polsinelli, M., Romano, P., Suzzi, G. & Mortimer, R. Multiple strains of *Saccharomyces cerevisiae* on a single grape vine 110
Prieto, M.I. *see* Diez, A.
Puyet, A. *see* Diez, A.
Rasmussen, H.N., Olsen, J.E., Jorgensen, K. & Rasmussen, O.F. Detection of *Campylobacter jejuni* and *Camp. coli* in chicken faecal samples by PCR 363
Rasmussen, O.F. *see* Rasmussen, H.N.
Rati, E.R. *see* Shantha, T.
Razak, A.A. *see* Abo-Dahab, N.F.
Reasoner, D.J. *see* Rice, E.W.
Rementzis, J. & Samelis, J. Rapid GC analysis of cellular fatty acids for characterizing *Lactobacillus sake* and *Lact. curvatus* strains of meat origin 379
Requena, T. *see* Parra, L.
Revol-Junelles, A.-M., Mathis, R., Krier, F., Fleury, Y., Delfour, A. & Lefebvre, G. *Leuconostoc mesenteroides* subsp. *mesenteroides* FR52 synthesizes two distinct bacteriocins 120
Rhys-Williams, W. *see* Thomason, M.J.
Rice, E.W., Johnson, C.H. & Reasoner, D.J. Detection of *Escherichia coli* O157:H7 in water from coliform enrichment cultures 179
Rijpens, N. *see* Jersek, B.
Robinson, C. *see* McCann, K.P.
Rodrigues, C. *see* Noronha-da-Costa, P.
Rodrigues, F. *see* Sanchez, J.M.

Roh, J.Y., Park, H.W., Jin, B.R., Kim, H.S., Yu, Y.M. & Kang, S.K. Characterization of novel non-toxic *Bacillus thuringiensis* isolates from Korea 249
Romano, P. *see* Polsinelli, M.
Rowbury, R.J. *see* Lazim, Z.
Rowbury, R.J., Lazim, Z. & Goodson, M. Involvement of the OmpA protein in L-leucine-induced acid sensitivity 426
Rowe, B. *see* Chart, H.
Ruma, P., Chen, S.C.A., Sorrell, T.C. & Brownlee, A.G. Characterization of *Cryptococcus neoformans* by random DNA amplification 312
Rustrian, E., Delgenes, J.P. & Moletta, R. Effect of the volatile fatty acids on phosphate uptake parameters by pure cultures of *Acinetobacter* sp. 245
Ryu, C.H. *see* Igimi, S.
Sakai, M. *see* Kakizaki, E.
Sakai, T. *see* Kakizaki, E.
Sakurai, N. & Komatsubara, S. Simple and versatile electrotransformation of *Serratia marcescens* Sr41 23
Samelis, J. *see* Rementzis, J.
Sammons, R.L. *see* McCann, K.P.
Sampsell, B.M. *see* Pettibone, G.W.
Sanchez, J.M. *see* Munoz, M.A.
Sanchez, J.M., Valle, L., Rodrigues, F., Morinigo, M.A. & Borrego, J.J. Inhibition of methanogenesis by several heavy metals using pure cultures 439
Santos, J. *see* Lopez-Diaz, T.M.
Sasaki, T. *see* Igimi, S.
Sasaki, Y. *see* Igimi, S.
Saunders, V.A. *see* Jackson, D.J.
Scates, P. *see* Madden, R.H.
Schnell, B.M. *see* Wille, K.K.
Selvakumar, P., Ashakumary, L., Helen, A. & Pandey, A. Purification and characterization of glucoamylase produced by *Aspergillus niger* in solid state fermentation 403
Seviour, E.M. *see* Stratton, H.M.
Seviour, R.J. *see* Stratton, H.M.
Shah, S. *see* Hamilton-Miller, J.M.T.
Shantha, T., Rati, E.R. & Joseph, R. Reversal of growth inhibition of *Bacillus megaterium* due to aflatoxin by coffee and tea extracts 437
Shinano, H. *see* Yamazaki, K.
Siragusa, G.R. *see* Cutter, C.N. *also* Dorsa, W.J.
Slaughter, J.C. *see* Crumplen, R.M.
Smith, D.A. *see* McCann, K.P.
Sneath, P.H.A. & Barrett, S.J. A new species of *Neisseria* from the dental plaque of the domestic cow, *Neisseria dentiae* sp. nov. 355
Solis, S., Flores, M.E. & Huitron, C. Protoplasts from pectinolytic fungi: isolation, regeneration and pectinolytic enzyme production 36
Sorrell, T.C. *see* Ruma, P.
Spencer-Martins, I. *see* Noronha-da-Costa, P.
Sreeramulu, G., Srinivasa, D.S., Nand, K. & Joseph, R. *Lactobacillus amylovorus* as a phytase producer in submerged culture 385
Srinivasa, D.S. *see* Sreeramulu, G.
St Hardy, G.E. *see* Barbosa, A.M.
Stetler, R.E. & Williams, F.P. Pretreatment to reduce somatic salmonella phage interference with FRNA coliphage assays: successful use in a one-year survey of vulnerable groundwaters 49
Stewart, C.S. *see* Kopecny, J.
Stewart, G.G. *see* Crumplen, R.M.
Stewart-Tull, D.E.S. *see* Ward, G.D.
Stoutenburg, J.W. *see* Trott, D.J.
Stratton, H.M., Webb, R., Seviour, E.M., Blackall, L.L. & Seviour, R.J. Ultrastructure of *Microthrix parvicella* from activated sludge 85
Stringer, S.C. & Peck, M.W. Vegetable juice aids the recovery of heated spores of non-proteolytic *Clostridium botulinum* 407
Suemori, A., Nakajima, K., Kurane, R. & Nakamura, Y. Enzyme complex structure and location of enzymes in the phthalate degradative pathway in *Rhodococcus erythropolis* 1
Sugita, H., Kawasaki, J., Kumazawa, J. & Deguchi, Y. Production of amylase by the intestinal bacteria of Japanese coastal animals 174
Sugita, H., Kumazawa, J. & Deguchi, Y. Production of chitinase and β-*N*-acetylglucosaminidase by intestinal bacteria of Pinnipedian animals 275
Suzuki, I. *see* Umemoto, T.
Suzuki, S., Kuroe, K., Yasue, K. & Kusuda, R. Antigenicity and N-terminal amino acid sequence of a 35 kDa porin-like protein of *Listonella* (*Vibrio*) *anguillarum*: comparison among different serotypes and other bacterial species 303
Suzzi, G. *see* Polsinelli, M.
Swayne, D.A. *see* Trott, D.J.
Tahara, T., Oshimura, M. & Kanatani, K. Mode of action of acidocin 8912, a bacteriocin produced by *Lactobacillus acidophilus* TK8912 192
Tassou, C.C. *see* Nychas, G.-J.E.
Tcherneva, E. *see* Jersek, B.
Teather, R.M. *see* Forster, R.J.
Teduka, H. *see* Yamazaki, K.

Thammavongs, B., Corroler, D., Panoff, J.-M., Auffray, Y. & Boutibonnes, P. Physiological response of *Enterococcus faecalis* JH2-2 to cold shock: growth at low temperatures and freezing thawing challenge 398

Thomason, M.J., Rhys-Williams, W., Hutt, A.J., Lloyd, A.W. & Hanlon, G.W. Demonstration of the chiral inversion of ibuprofen by *Verticillium lecanii* in non-growing cultures 417

Tilburg, J.J.H.C. *see* de Boer, E.

Tonomura, K. *see* Oda, Y.

Tornai-Lehoczki, J. & Dlauchy, D. An opportunity to distinguish species of *Saccharomyces sensu stricto* by electrophoretic separation of the larger chromosomes 227

Trott, D.J., Atyeo, R.F., Lee, J.I., Swayne, D.A., Stoutenburg, J.W. & Hampson, D.J. Genetic relatedness amongst intestinal spirochaetes isolated from rats and birds 431

Tzanetakis, N. *see* Vafopoulou-Mastrojiannaki, A.

Umemoto, T., Naito, Y., Li, M., Suzuki, I. & Namikawa, I. Growth inhibition of a human oral bacterium *Porphyromonas gingivalis* by rat cysteine proteinase inhibitor cystatin S 151

Ushida, K. & Jouany, J.P. Methane production associated with rumen-ciliated protozoa and its effect on protozoan activity 129

Ushida, K. *see* Newbold, C.J.

Uzal, F.A., Plumb, J.J., Blackall, L.L., O'Boyle, D. & Kelly, W.R. Detection by polymerase chain reaction of *Clostridium perfringens* producing epsilon toxin in faeces and in gastrointestinal contents of goats 13

Vafopoulou-Mastrojiannaki, A., Litopoulou-Tzanetaki, E. & Tzanetakis, N. Esterase activities of cell-free extracts from 'wild' strains of leuconostocs and heterofermentative lactobacilli isolated from traditional Greek cheese 367

Valle, L. *see* Sanchez, J.M.

Von Wright, A. *see* Holmalahti, J.

Vowels, B.R. *see* Wille, K.K.

Ward, G.D., Watson, I.A., Stewart-Tull, D.E.S., Wardlaw, A.C. & Chatwin, C.R. Inactivation of bacteria and yeasts on agar surfaces with high power Nd:YAG laser light 136

Wardlaw, A.C. *see* Ward, G.D.

Watson, I.A. *see* Ward, G.D.

Webb, R. *see* Stratton, H.M.

Wesley, I.V. *see* Harmon, K.M.

Westall, S. *see* Lund, F.

Wille, K.K., Vowels, B.R., Foglia, A.N., Berge, C.A., Schnell, B.M. & Briese, F.W. Replicate plating: does it increase reliability? 75

Williams, A. *see* Lever, M.S.

Williams, F.P. *see* Stetler, R.E.

Williamson, J.K. *see* Bolton, F.J.

Woodward, D.L. *see* de Boer, E.

Yamazaki, K., Teduka, H., Inoue, N. & Shinano, H. Specific primers for detection of *Alicyclobacillus acidoterrestris* by RT-PCR 350

Yasue, K. *see* Suzuki, S.

Yii, K.-C. *see* Lee, K.K.

Yokozeki, K. *see* Onishi, N.

Yoshida, T. *see* Kakizaki, E.

Yu, H. *see* Jiang, C.

Yu, Y.M. *see* Roh, J.Y.

Yusoff, S. *see* Knapp, J.S.

# Index of Subjects


Action of acidocin 8912 (Tahara, Oshimura & Kanatani) 192
Aerobic degradation of 2-sulphobenzoic acid (Goncalves & Fedorak) 299
Airborne transmission of *Salmonella* (Lever & Williams) 347
Amylase production of marine bacteria (Sugita, Kawasaki, Kumazawa & Deguchi) 174
Antagonism of intestinal *Lactobacillus* (Jin, Ho, Abdullah, Ali & Jalaludin) 67
Antimicrobial effects of *Pelargonium* (Lis-Balchin & Deans) 205
*Arcobacter* isolation in meats (de Boer, Tilburg, Woodward, Lior & Johnson) 64
Associated mycoflora of rye bread (Lund, Filtenborg, Westall & Frisvad) 213
*Bacillus subtilis* germination receptors (McCann, Robinson, Sammons, Smith & Corfe) 290
Bacterial outputs from fish farming (Bedwell & Goulder) 412
Bacterial survival on food preparation surfaces (Barnes, Cassar, Halablab, Parkinson & Miles) 325
Bacteriocin activity on enteropathogenic bacteria (Padilla, Brevis, Lobos & Hubert) 371
Bacteriocins from *Leuconostoc mesenteroides* FR52 (Revol-Junelles, Mathis, Krier, Fleury, Delfour & Lefebvre) 120
Bacteriophages: a model system for human viruses (Maillard) 273
BBL Crystal ID kit with *Haemophilus* spp. (Hamilton-Miller & Shah) 47
Biological phosphate removal (Rustrian, Delgenes & Moletta) 245
$^{14}$C-Glucose metabolism in soil (Harrison & Betts) 43
*Candida* chitinase activating factor (Jackson, Saunders & Humphreys) 159
Characterization of *Lactobacillus* of meat origin (Rementzis & Samelis) 379
Chiral inversion of ibuprofen by *Verticillium lecanii* (Thomason, Rhys-Williams, Hutt, Lloyd & Hanlon) 417
Chitinase from intestinal bacteria (Sugita, Kumazawa & Deguchi) 275
Chitinases and rumen fungi (Kopecny, Hodrova & Stewart) 199
Ciliate protozoa in the lysis of methanogenic archaea in rumen fluid (Newbold, Ushida, Morvan, Fonty & Jouany) 421
*Clostridium cellulolyticum* under dialysis conditions (Gehin, Cailliez, Petitdemange & Benoit) 208
Cold shock response in *Enterococcus faecalis* (Thammavongs, Corroler, Panoff, Auffray & Boutibonnes) 398
Cryopreservation of rumen ciliates (Kisidayova) 389
Curd slurry proteolysis by lactobacilli (Parra, Requena, Casal & Gomez) 375
D-Amino acid oxidase from *Rhodosporidium toruloides* (Lee & Chu) 283
Detection of bacterial antigens using immuno-PCR (Kakazaki, Yoshida, Kawakami, Oseto, Sakai & Sakai) 101
Detection of *Clostridium perfringens* by PCR (Uzal, Plumb, Blackall, O'Boyle & Kelly) 13
Detection of *Escherichia coli* O157:H7 in water (Rice, Johnson & Reasoner) 179
Detection of GroEL-like protein in *Vibrio* (Koga, Nakajyo & Komoto) 295
Distinguishing species of *Saccharomyces sensu stricto* (Tornai-Lehoczki & Dlauchy) 227
Effect of cystatin S on *Porphyromonas gingivalis* (Umemoto, Naito, Suzuki & Namikawa) 151
Effects of heavy metals on methanogenesis (Sanchez, Valle, Rodriguez, Morinigo & Borrego) 439
Effects of heavy metals on methanogenesis from sewage (Munoz, Codina, de Vicente, Sanchez, Borrego & Morinigo) 339
Enterotoxin produced by *Bacillus thuringiensis* (Damgaard, Larsen, Hansen, Bresciani & Jorgensen) 146
Enzymes in the phthalate degradative pathway (Suemori, Nakajima, Kurane & Nakamura) 1
Esterases from leuconostocs and lactobacilli (Vafopoulou-Mastrojiannaki, Litopoulou-Tzanetaki & Tzanetakis) 367
Fatty acid patterns of film-forming yeasts (Noronha-da-Costa, Rodrigues, Spencer-Martins & Loureiro) 79
Galacto-oligosaccharide production from lactose (Onishi, Kira & Yokozeki) 253
Galactose transport in *Clostridium acetobutylicum* P262 (Gutierrez & Maddox) 97
Genetic relatedness amongst intestinal spirochaetes (Trott, Atyeo, Lee, Swayne, Stoutenburg & Hampson) 431
Glucose analogue affecting mycotoxins (Abo-Dahab, Paterson & Razak) 171
Glycolytic inhibition by parabens (Ma & Marquis) 329
H subfactor identification in *Bacillus thuringiensis* (Ohba) 287
Haloacid dehalogenase from *Azotobacter* (Diez, Prieto, Alvarez, Bautista, Puyet & Garrido) 279
Heat resistance of *Bacillus stearothermophilus* (Lopez, Mazas, Gonzalez, Gonzalez & Bernardo) 187
Hydration of oleic acid by a *Selenomonas* strain (Hudson, MacKenzie & Joblin) 133
Hydrophobicity of pathogenic vibrios (Lee & Yii) 343
Identification of *Rhodococcus equi* using PCR (Bell, Philp, Christofi & Aw) 72
Immobilization of nisin on beef (Cutter & Siragusa) 9
*In vivo* and *in vitro* transfer of conjugative plasmid pAMb1 (Igimi, Ryu, Park, Sasaki, Sasaki & Kumagai) 31

Inactivation of bacteria and yeasts on agar (Ward, Watson, Stewart-Tull, Wardlaw & Chatwin) 136
Isolation of DNA-binding compounds (Holmalahti, Juntilla & von Wright) 231
Isolation of *Escherichia coli* O157 from raw meat (Bolton, Crozier & Williamson) 317
Korean *Bacillus thuringiensis* isolates (Roh, Park, Jin, Kim, Yu & Kang) 249
L-forms of *Aeromonas salmonicida* (Gibb, McIntosh & Austin) 445
Laccases of a *Botryosphaeria* sp. (Barbosa, Dekker & St Hardy) 93
Lactate and acetate in *Listeria innocua* (Kelly & Patchett) 125
*Lactobacillus amylovorus* as a phytase producer (Sreeramulu, Srinivasa, Nand & Joseph) 385
*Listeria monocytogenes*, pathogenicity and lag phase (Buncic & Avery) 18
L-Leucine and acid sensitivity (Rowbury, Lazim & Goodson) 426
Maltose fermentation genes in baker's yeast (Oda & Tonomura) 266
Metal tolerance in *Acidiphilium* strains (Mahapatra & Banerjee) 393
Microbial polysaccharide gellan (Manna, Gambhir & Ghosh) 141
Microflora of soak water during fermentation (Katsaboxakis & Mallidis) 261
Morpholine biodegradation by Gram-negative bacteria (Knapp, Emtiazi, Yusoff & Heron) 334
*Neisseria dentiae* sp. nov. from domestic cow (Sneath & Barrett) 355
PCR detection of *Campylobacter* in chicken faeces (Rasmussen, Olsen, Jorgensen & Rasmussen) 363
PCR for detection of *Arcobacter* spp. (Harmon & Wesley) 241
PCR-RFLP analysis of 23S rRNA of *Campylobacter jejuni* (Iriarte & Owen) 163
*Penicillium roqueforti* strains from a blue cheese (Lopez-Diaz, Santos, Otero, Garcia & Moreno) 5
PhoE porin and acid sensitivity in *Escherichia coli* (Lazim, Humphrey & Rowbury) 269
Phylogenetic position of *Butyrivibrio* (Forster, Teather, Gong & Deng) 218
Porin-like protein of *Listonella anguillarum* (Suzuki, Kuroe, Yasue & Kusuda) 303
Potato-based microalgal production (Fabregas, Morales, Polanco, Patino & Otero) 223
Pretreatment for SS phage interference (Stetler & Williams) 49
Protoplasts from pectinolytic fungi (Solis, Flores & Huitron) 36
Purification of glucoamylase produced by *Aspergillus niger* (Selvakumar, Ashakumary, Helen & Pandey) 403
RAPD analysis of nodulating bacteria (Mathan, Parani, Parida & Nair) 89
RAPD analysis of *Xanthomonas albilineans* (Permaul, Pillay & Pillay) 307
RAPD subtyping of campylobacters (Madden, Moran & Scates) 167
RAPD typing of *Cryptococcus neoformans* (Ruma, Chen, Sorrell & Brownlee) 312
Recombinant cells of *Pseudomonas fluorescens* (Grace & Ewart) 183
Reducing cell adhesion by vibration (Jiang, Yu, Ding & Ma) 27
Reduction of *Escherichia coli* O157:H7 inoculated to beef (Dorsa, Cutter & Siragusa) 61
Repetitive element sequence-based PCR for *Listeria* spp. (Jersek, Tcherneva, Rijpens & Herman) 55
Replicate plating (Wille, Vowels, Foglia, Berge, Schnell & Briese) 75
Resistance patterns in *Aeromonas* (Pettibone, Mear & Sampsell) 234
Reversal of growth inhibition of *Bacillus megaterium* (Shantha, Rati & Joseph) 437
Rumen chitinolytic bacteria (Kopecny, Hodrova & Stewart) 195
Rumen protozoa and methanogenesis (Ushida & Jouany) 129
*Saccharomyces cerevisiae* in a spontaneous fermentation (Polsinelli, Romano, Suzzi & Mortimer) 110
*Salmonella enteritidis* under vacuum or modified-atmosphere packaging (Nychas & Tassou) 115
*Salmonella* survival in aerosols (McDermid & Lever) 107
Serology of human VTEC infections (Chart, Cheasty & Rowe) 322
Specific primer for *Alicyclobacillus acidoterrestris* (Yamazaki, Teduka, Inoue & Shinano) 350
Thermal resistance of arthroconidia (Kinderlerer) 359
Transformation of *Serratia marcescens* Sr41 (Sakurai & Komatsubara) 23
Ultrastructure of *Microthrix parvicella* (Stratton, Webb, Seviour, Blackall & Seviour) 85
Utilization of alkylated benzenes (Lang) 257
Variation in *Salmonella* core lipopolysaccharide (Mansfield, Billett, Olsen & Forsythe) 104
Vegetables and *Clostridium botulinum* spores (Stringer & Peck) 407
Yeast maltose uptake kinetic characteristics (Crumplen, Slaughter & Stewart) 448
Yeasts from traditional bread doughs (Almeida & Pais) 154